**2.3 – VSEPR Theory – Practice Time!!**

1. For the following molecules or ions, complete the chart:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Molecule/Ion | Lewis Structure | e-group geometry | VSEPR Notation | Molecular Geometry | Diagram |
| a) N2 |  |  |  |  |  |
| b) HCN |  |  |  |  |  |
| c) NH4+ |  |  |  |  |  |
| d) NO3- |  |  |  |  |  |
| e) NSF |  |  |  |  |  |

2. Which one of the following ions has a *trigonal planar* shape? Explain.

a) SO3-2

b) PO4-3

c) PF6-

d) CO3-2